

Title (en)  
Railway track circuits.

Title (de)  
Eisenbahn-Gleisstromkreisschaltungen.

Title (fr)  
Circuits de voie de chemin de fer.

Publication  
**EP 0539046 A2 19930428 (EN)**

Application  
**EP 92309012 A 19921002**

Priority  
GB 9122438 A 19911023

Abstract (en)  
A railway track circuit system is described, in which there is a transmitter 15,16 and receiver 19,20 at each end of a track circuit section 4. Each receiver receives signals from the transmitter at the opposite end of the section and the received signals are analysed to determine whether a vehicle is present in the track circuit section. Where adjacent track circuit sections are also provided with a transmitter and a receiver at each of their ends, the transmitters 14,17 and receivers 18,21 at adjacent ends of adjacent track sections 3,5 can be connected to a track circuit unit 8,9 to allow that unit to check, when a vehicle appears to have left one track circuit section, that it has entered an adjacent section. <IMAGE>

IPC 1-7  
**B61L 23/16**; B61L 1/18

IPC 8 full level  
**B61L 1/18** (2006.01); **B61L 23/16** (2006.01)

CPC (source: EP US)  
**B61L 1/187** (2013.01 - EP US); **B61L 23/166** (2013.01 - EP US)

Citation (applicant)  
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**EP 92309012 A 19921002**; CA 2079864 A 19921005; DE 69226599 T 19921002; ES 92309012 T 19921002; GB 9122438 A 19911023; US 96245492 A 19921016